

DAIICT Student Portal

IT206 PROJECT

Project by:

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About this Project

It is always difficult and tiring to register each and every student into your college portal. You have to work day in and day out to make sure every student is sorted out semester wise with appropriate login id, password and other details.

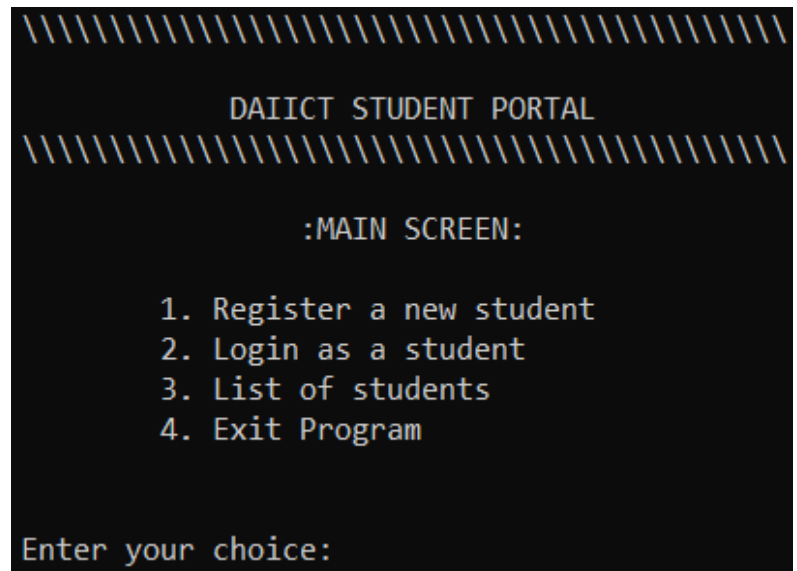
In our project we allow students to register themselves in the DAIICT student portal, choose their own password and enter their details. Furthermore, they can also view their details whenever required.

One more interesting feature in this project is that the student registers themselves in a particular semester so the work of sorting out student's semester wise is done by the system itself.

Also, we've added a special feature for the administration and their staff where they can easily view all the details of every student semester wise once they login using the administration username and password. This means that they've easy access of the students in DAIICT through the DAIICT student portal.

Features of this Student Portal

- + Register as a new student
- + Login to view your details with password security
- + Admin can view semester wise list with details of all students



```
////////////////////
                DAIICT STUDENT PORTAL
                //////////////////////
                        :MAIN SCREEN:

                        1. Register a new student
                        2. Login as a student
                        3. List of students
                        4. Exit Program

                        Enter your choice:
```

Limitations

- There is no option for editing details of a registered student.
- While registering new student it is not checked whether he/she has already registered or not.
- There is no option for deleting details of a registered student.

Backend of few features explained

+ Storing data of new student:

Functions used are →

- getID()
- getPassword()
- getFirstName()
- getLastName()
- getEmail()
- DataStoring()

- All the get functions are for getting details of the student.
- DataStoring function is used for storing data sorted in ascending order of student IDs.
- This is achieved by traversing through details of previously registered students and comparing every ID with the ID of new student. New student's details are added at appropriate place accordingly.
- This is how data is stored in .txt file



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+ Login window:

Functions used are→

- ShowData()
- LoginHistory()
- Check_n_Display()

- ShowData is used just for displaying user's detail using cout.
- LoginHistory uses FIFO(first in first out) concept just like queue.
- It stores student ID and semester number of last 3 users who logged in.
- This data is displayed on top of login window.

```
ID : 202001087 from Semester 2 logged in few moments ago
ID : 202001040 from Semester 2 logged in few moments ago
```

- Check_n_Display is for checking user's ID and password.

Things learnt during the project

We learnt many technical and non-technical things while working for this project.

We learnt many new file handling concepts. We got familiar with ofstream/ifstream class of C++ and learnt to use them for basic things like opening and closing files. We learnt how to create, read and write to files all using C++. We used several new functions like rename, remove etc. We implemented several data structures concepts in this project.

In addition to all this technical stuff, we also learnt how to work and coordinate with partner. Time management also played crucial role for completing this project in given time.

THANK YOU